

Name: _____

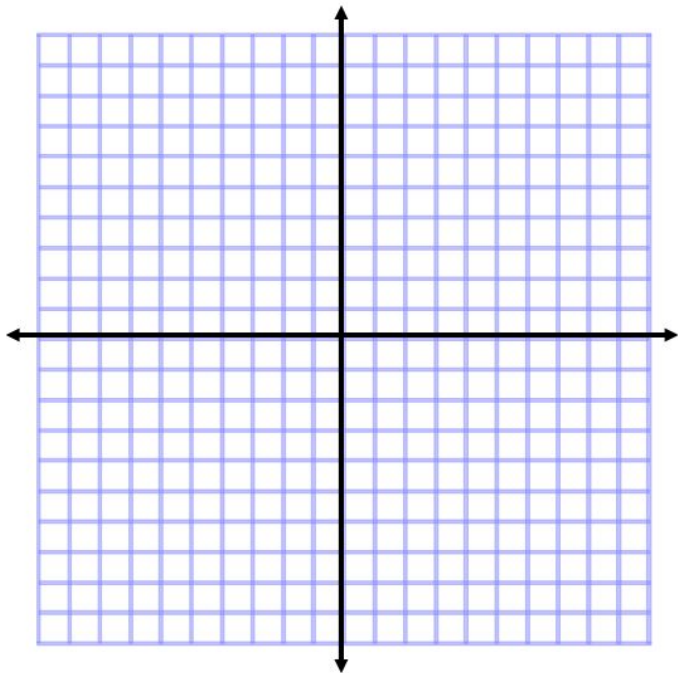
Unit 3 (Linear Inequalities, Standard Form) Practice Test

Part One: Matching: Write the CAPITAL LETTER of the term or symbol that matches each description.

1. ____ the dashed or solid line of a linear inequality	A. system of linear inequalities
2. ____ the inequality symbol for at minimum	B. standard form
3. ____ the inequality symbol for no more than	C. solid
4. ____ $Ax + By = C$	D. dashed
5. ____ the process of replacing a variable with a designated number	E. boundary line
6. ____ the inequality symbol for more than	F. \leq
7. ____ the inequality symbol for fewer than	G. \geq
8. ____ the form of a boundary line if the inequality symbol is $<$ or $>$	H. $<$
9. ____ the form of a boundary line if the inequality symbol is \geq or \leq	I. $>$
10. ____ the type of intercept of the coordinate (9, 0)	J. substitution
11. ____ the type of intercept of the coordinate (0, 9)	K. region
12. ____ the solution of a system of linear inequalities	L. x-intercept
13. ____ two or more linear inequalities graphed together	M. y-intercept

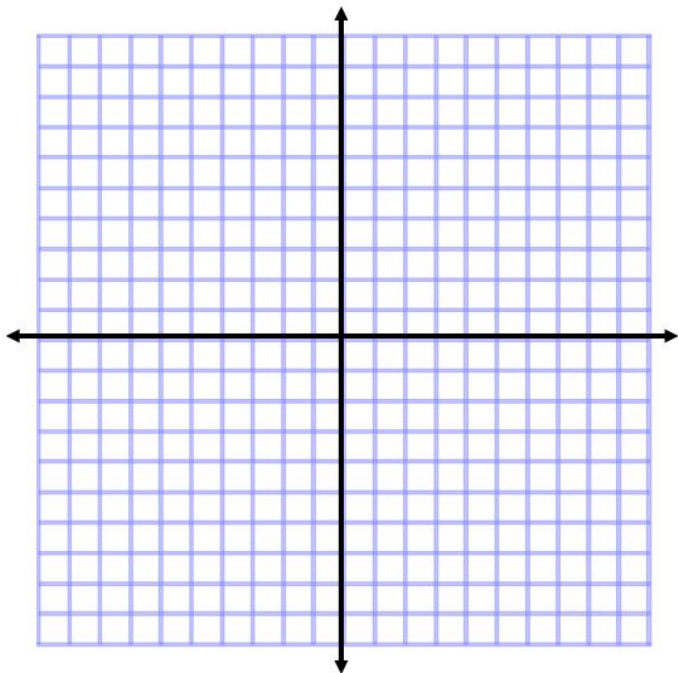
Part Two: Graphing Linear Inequalities: Graph each linear inequality. Be sure to be clear whether the boundary line is DASHED or SOLID, name your lines, and test (0, 0) to determine shading.

1. $y > 3x - 7$



Test (0, 0)

2. $3x + 4y \geq -12$



Test (0, 0)

Part Three: Algebraic Writing: Answer each question using at least TWO sentences and at least TWO algebraic terms. ECHO THE PROMPTS!

1. Gina claims that $(3, -5)$ is a solution of $y < 2x - 11$. Do you agree with her? Explain your answer.

2. When is the boundary line of a linear inequality *dashed*? In these cases, is the boundary line part of the solution of linear inequality?

3. Yvette states that the x-intercept of $5x - 3y = 15$ is $(3, 0)$. Do you agree with her? Explain your answer.
